MODE, MEDIAN, MEAN & RANGE

Definition:

Three different ways to describe the central tendency of a set of numbers!

MODE

Learning Goal: find the number that appears most frequently.

Example:

COUNT FREQUENCY

2, 4, 5, 2, 6, 2, 7, 2

MEDIAN

Learning Goal: find the middle number in a set of numbers when they are arranged in order from smallest to largest.

Odd Numbers Formula:
(n+1)/2th
term

n = no. of observations
n = 8

Even Numbers Formula:
n+1/2th term
8+1/2
=4.5th term

Example:

AVERAGE THE SUM OF 4TH AND 5TH TERMS TO FIND 4.5TH TERM

2, 2, 2, 2, 4, 5, 6, 7

MEAN

Learning Goal: add up all the numbers and divide by the total numbers in the set.

Formula:
m=sum of terms/number of terms

Example:

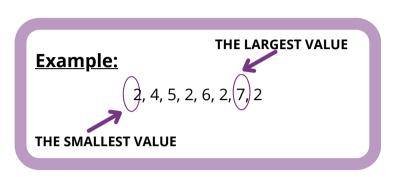DIVIDE THE TOTAL BY 8

2, 2, 2, 2, 4, 5, 6, 7   = 30 /8

RANGE

Learning Goal: find the difference between the largest and smallest values.

Example:

THE LARGEST VALUE

2, 4, 5, 2, 6, 2, 7, 2

THE SMALLEST VALUE

what do you think the answer is?

ANS: 5